

Docket No. IL-11028Customer No. 26857

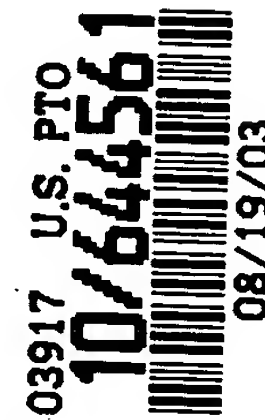
Commissioner for Patents

P. O. Box 1450, Alexandria, VA 22313-1450

## NEW APPLICATION TRANSMITTAL

Transmitted herewith for filing is the patent application of Inventor(s):  
**Hsneh-Yuan Pao, Binh-Nien Tran**

For (title): **DIGITAL INTERMEDIATE FREQUENCY QAM MODULATOR  
USING PARALLEL PROCESSING**



## 1. Type of Application

☒ This new application is for an original patent.

☐ This new application is a:

☐ Division

☐ Continuation

☐ Continuation-in-part (CIP)

## 2. Benefit of Prior U.S. Application(s) (35 USC 120)

☐ The new application being transmitted claims the benefit of prior U.S. application(s) listed below:

Application Serial No.

Filing Date

3. ☒ Benefit under 35 U.S.C. 119(e) of United States provisional application(s) listed below: 60/404,596 August 19, 2002

Application Serial No.

Filing Date

## 4. Papers enclosed which are required for filing Date Under 37 CFR 1.53(b).

18 Pages of specification

11 Pages of claims

1 Pages of abstract

8 Sheets of drawings

☒ formal

## 5. Additional papers enclosed

☐ Preliminary Amendment

☐ Information Disclosure Statement

☐ Form PTO-1449

6. Declaration or oath

- ☐ Enclosed and executed by
- ☐ All the inventors
  - ☐ legal representative of inventor(s) 37 CFR 1.42 or 1.43
- ☒ Not Enclosed

7. Assignment

- ☒ An assignment of the invention to The Regents of the University of California.
- ☐ Is enclosed
  - ☒ will follow

8. Certified Copy

Certified copy(ies) of application(s)

(country)	(application no.)	(filed)
(country)	(application no.)	(filed)

from which priority is claimed

- ☐ is(are) attached.
- ☐ will follow

9. Fee Calculation

CLAIMS AS FILED					
Type of Claim	Number Filed	Included in Basic Fee	Number Extra	Rate	Total Fee
Total Claims	12	-20 =	0	x \$18 = \$	0.00
Independent Claims	8	-3 =	5	x \$84 = \$	420.00
				Multiple Claims	= \$
				Basic Filing Fee	= \$ 750.00
				<b>Total</b>	<b>= \$ 1170.00</b>

**10. Small Entity Statement(s)**

- ☒ This is a filing by small entity under 37 CFR 1.9 and 1.27.

Filing Fee Calculation (50% of regular filing fee) \$ 585.00

**11. Fee Payment**

- ☐ Not Enclosed  
☒ Enclosed

**Total Basic Filing Fees To Be Paid** \$ 585.00

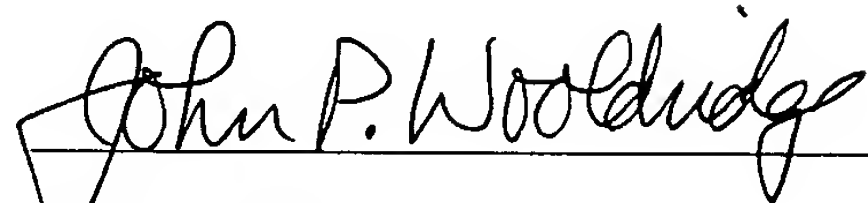
**12. Method of Payment of Fees**

- ☐ Check in the Amount of .00  
☒ Authorization is hereby \$585.00  
given to deduct the total  
fee from Deposit Account  
501913

**A duplicate of this transmittal is attached.**

**13. Instructions As To Overpayment/Underpayment**

- ☒ credit/charge  
Account No. 501913  
☐ refund



John P. Wooldridge

ATTORNEY

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Dated: August 18, 2003

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Hsneh-Yuan Pao et al.

Attorney Docket No. : IL-11028

Serial No. :

Art Unit:

Filed :

Examiner:

For : Digital Intermediate Frequency QAM  
Modulator Using Parallel Processing

Commissioner for Patents  
P. O. Box 1450, Alexandria,  
VA 22313-1450

EXPRESS MAIL CERTIFICATE

"Express Mail" label number EV123472054US

Date of Deposit: August 19, 2003

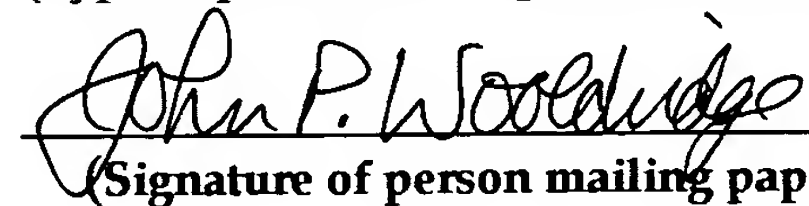
I hereby certify that the following *attached*

1. New Application Transmittal (3 pages) (in duplicate);
2. Combined Declaration and Power of Attorney (2 pages);
3. Application:  
(Specification 18 pages, Claims 11 pages, Abstract 1 page)  
Eight (8) sheets of formal drawings;
4. Express Mail Certificate; and
5. Return postcard,

are being deposited with the United States Postal Service "Express Mail Post Office to addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to: Mail Stop Patent Application, Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450

John P. Wooldridge

(Type or print name of person mailing paper)



(Signature of person mailing paper or fee)